

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 July 2003 (24.07.2003)

PCT

(10) International Publication Number
WO 03/059624 A1

(51) International Patent Classification⁷: **B32B 31/12**,
31/26

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(21) International Application Number: PCT/US03/00536

(22) International Filing Date: 9 January 2003 (09.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/346,277 9 January 2002 (09.01.2002) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

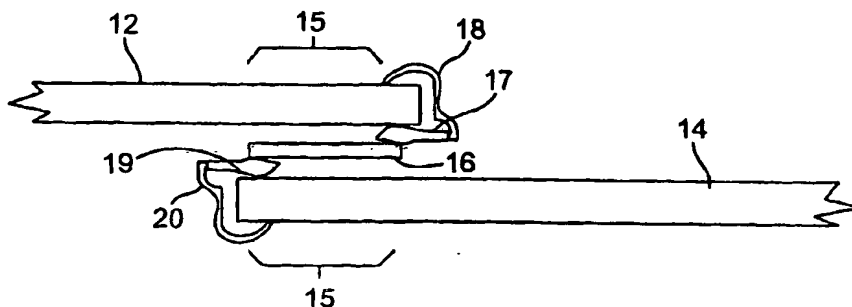
(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: METHOD FOR BONDING THERMOPLASTIC OR THERMOSET POLYMERIC MATERIALS UTILIZING VOLT-
AGE APPLIED TO CONDUCTIVE MATERIAL.



(57) Abstract: A method for bonding or joining thermoplastic or thermoset polymeric materials is provided which comprises applying a layer of conductive material (16) at a joint or between surfaces of thermoplastic or thermoset polymeric materials (12, 14), introducing a current so as to raise the temperature of the polymeric material above its melting point, maintaining the current for a time sufficient to allow the polymeric material to become molten and thereby form the joint or bond, and then removing the current and allowing the joint or bond (15) to cool. The method is advantageous in that it provides a simple and inexpensive means of bonding thermoplastic or thermoset polymeric materials with a minimum of materials and equipment. The method of the present invention can also be utilized so as to heat thermoplastic pipes and other devices made of thermoplastic materials.

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